

Title (en)

Metal catalyst, its method of preparation and its use

Title (de)

Metallkatalysator und Verfahren zu seiner Herstellung und Verwendung

Title (fr)

Catalyseurs métalliques et procédés de préparation et d'utilisation de ces derniers

Publication

EP 1369381 A1 20031210 (EN)

Application

EP 03252316 A 20030411

Priority

US 14370502 A 20020509

Abstract (en)

A metal catalyst comprising a metal supported by a ceria coating disposed on a ceramic monolith; wherein said metal is selected from the group consisting of nickel, cobalt, iron, platinum, palladium, iridium, rhenium, ruthenium, rhodium and osmium; said ceramic is selected from at least one of zirconia, alumina, yttria, titania, magnesia, ceria and cordierite; and said ceria coating has a weight percent between about 5% and about 30% with respect to said ceramic monolith may be as a catalyst of the partial oxidation of a gaseous hydrocarbon to carbon monoxide and hydrogen. The catalyst may be prepared by forming the ceria coating over the ceramic monolith, impregnating the ceria coating with the chosen catalytic metal, and exposing the resulting catalyst to a reducing environment.

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IPC 8 full level

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CPC (source: EP US)

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